DENNY & ASSOCIATES, P.C.
CONSULTING ENGINEERS
WASHINGTON, DC

JOINT ENGINEERING EXHIBIT IN SUPPORT OF *EX PARTE* COMMENTS IN MASS MEDIA DOCKET NUMBER 97-217 CATHOLIC TELEVISION NETWORK

Affidavit

WASHINGTON)
) ss:
DISTRICT OF COLUMBIA)

Robert W. Denny, Jr., being first duly sworn, says that he is president and treasurer of the firm of Denny & Associates, P.C., consulting engineers with offices in Washington, DC; that he is a professional engineer registered in the District of Columbia, the State of Maryland, and other jurisdictions; that his qualifications as an expert in radio engineering are a matter of record with the Federal Communications Commission; that the foregoing exhibit was prepared by him or under his direction; and that the statements contained therein are true of his own personal knowledge except those stated to be on information and belief and, as to those statements, he verily believes them to be true and correct.

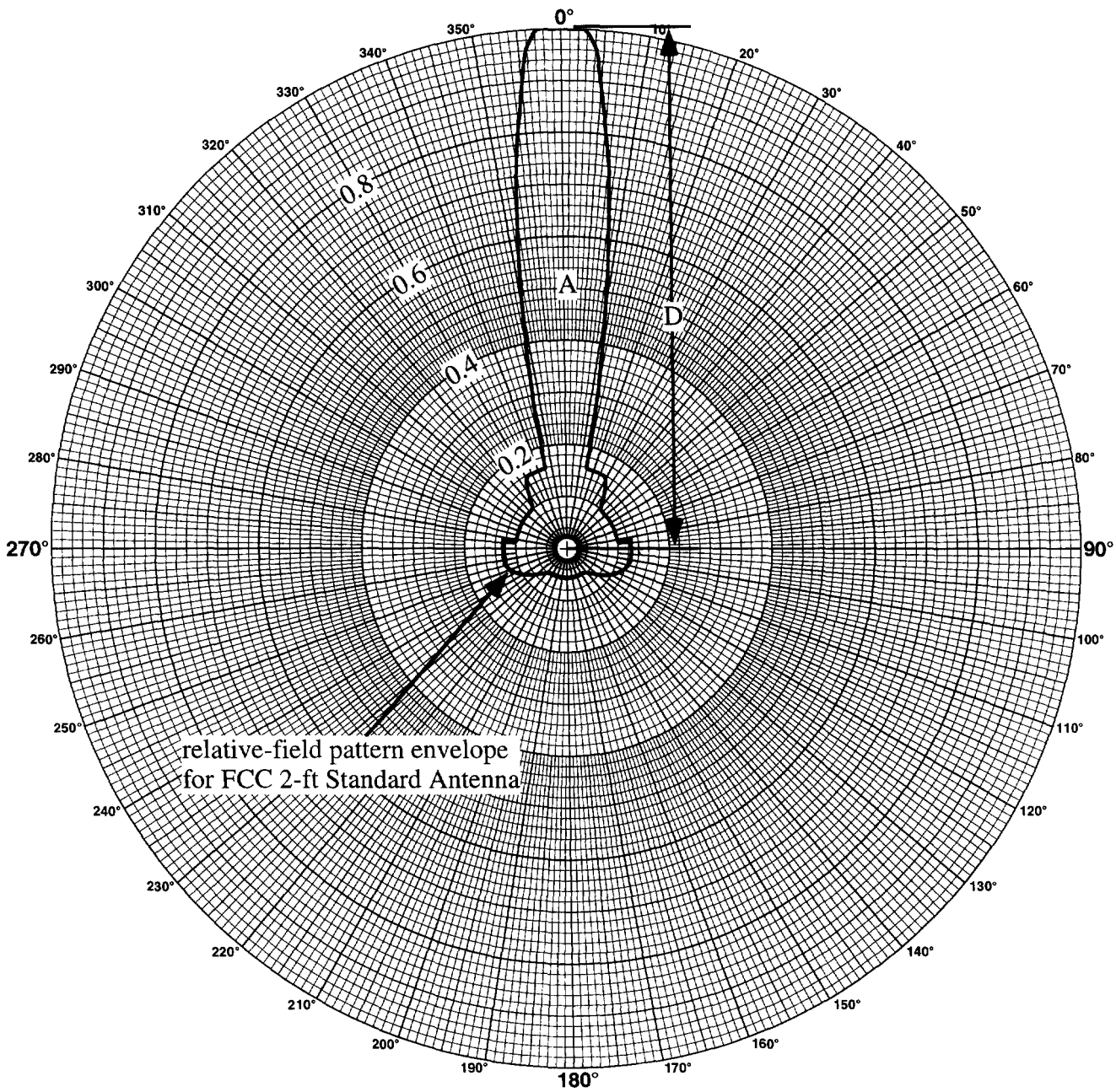
Robert W. Denny, Jr., P.E.

Subscribed and sworn to before me this 2nd day of April, 1998.

Jennifer J. Mateik
Notary Public, District of Columbia
My commission expires June 30, 2001

Catholic Television Network

Area Footprints for Brute Force Overload and Adjacent-Channel Interference Based on a Response Station EIRP of 48 dBm (63 w)

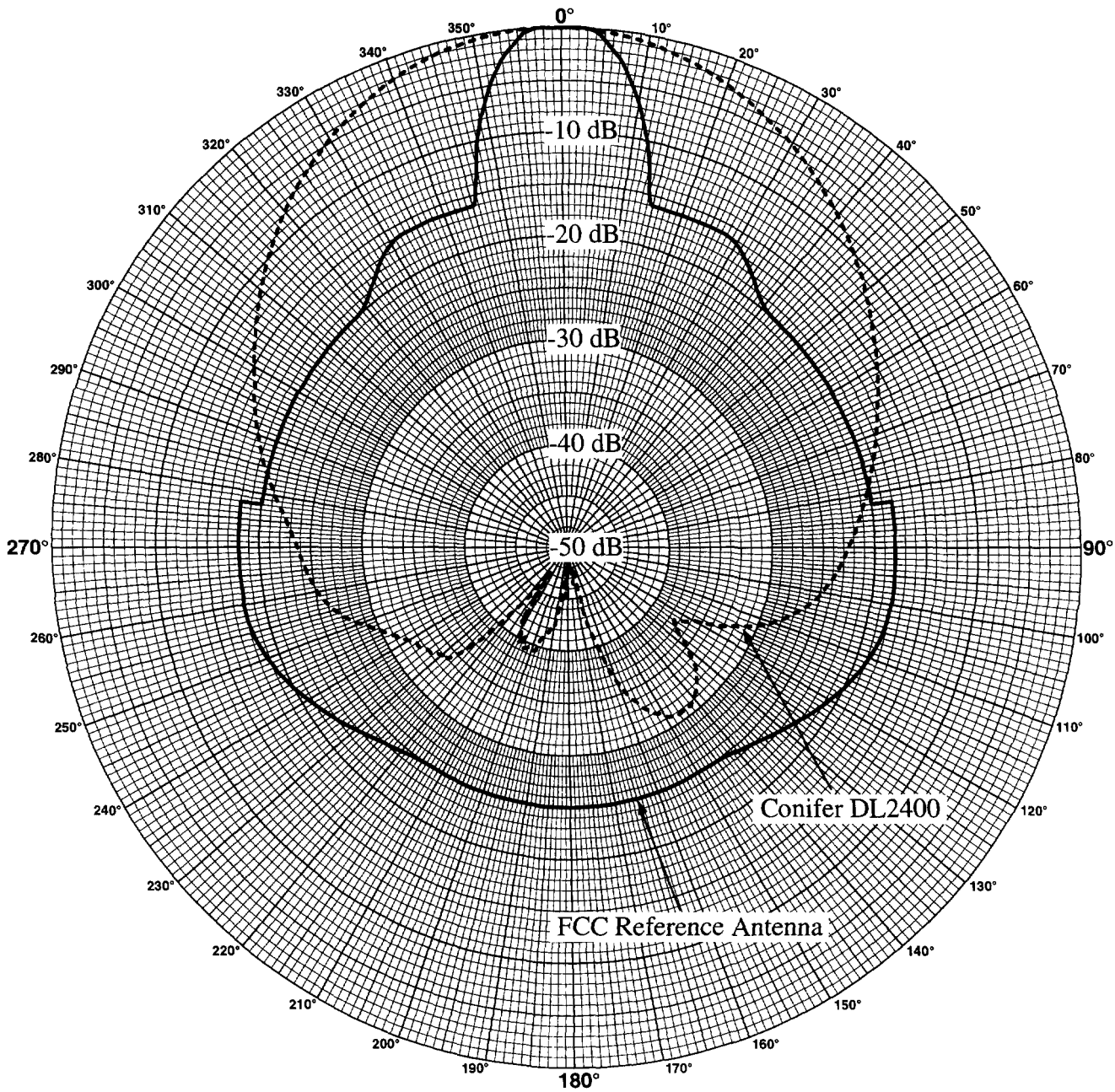


Distance D = 1,917 ft for brute force overload interference
= 3.55 mi for adjacent-channel interference

Area A = 0.022 sq. mi for brute force overload interference
= 2.09 sq. mi for adjacent-channel interference

Catholic Television Network

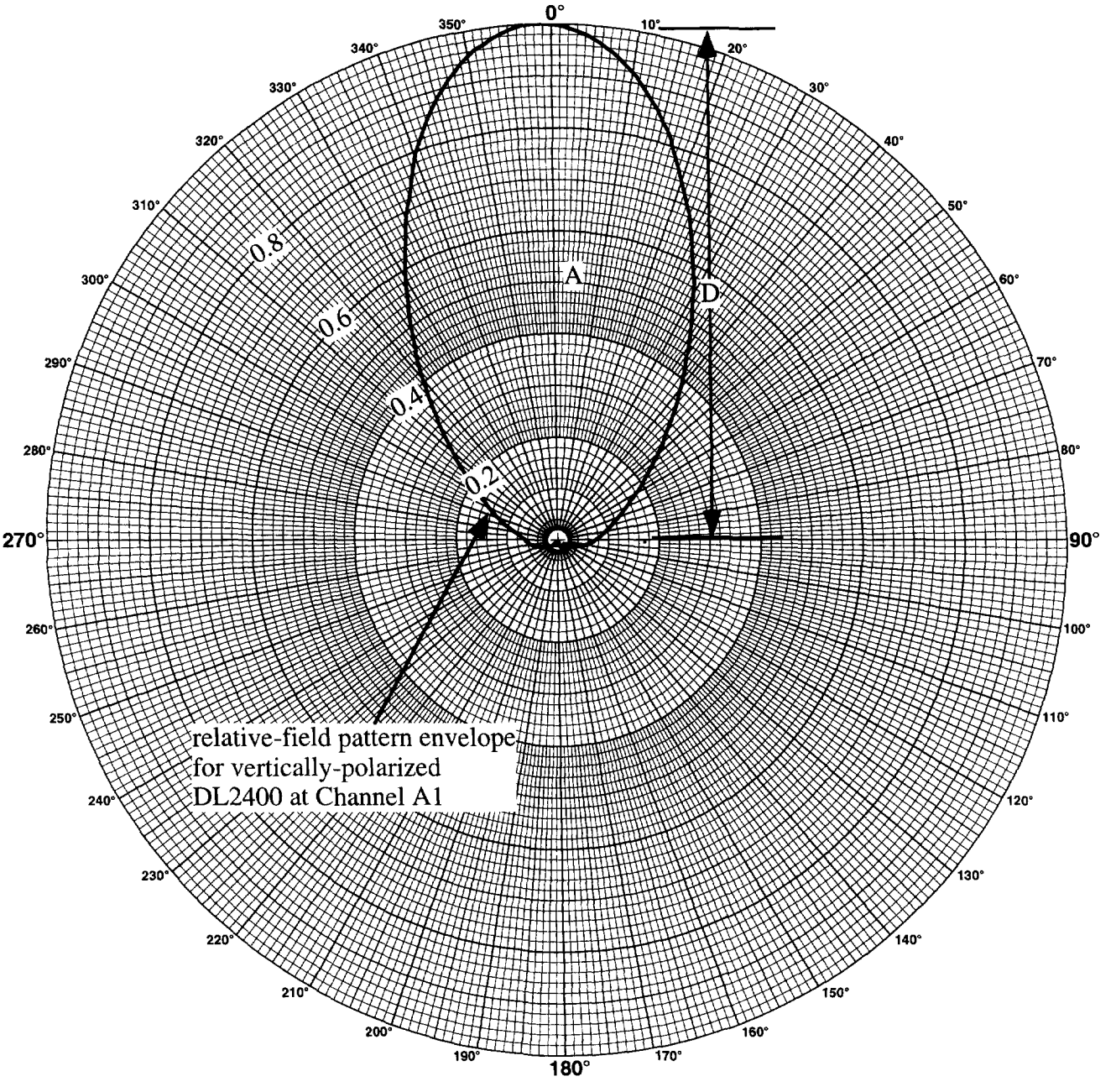
Radiation Pattern Envelope for Conifer Vertically-Polarized DL2400 Antenna at ITFS Channel A1 Compared to FCC Reference Antenna



RPE based on manufacturer's data

Catholic Television Network

Area Footprints for Brute Force Overload and Adjacent-Channel Interference Based on a Response Station EIRP of 46 dBm (40 w)

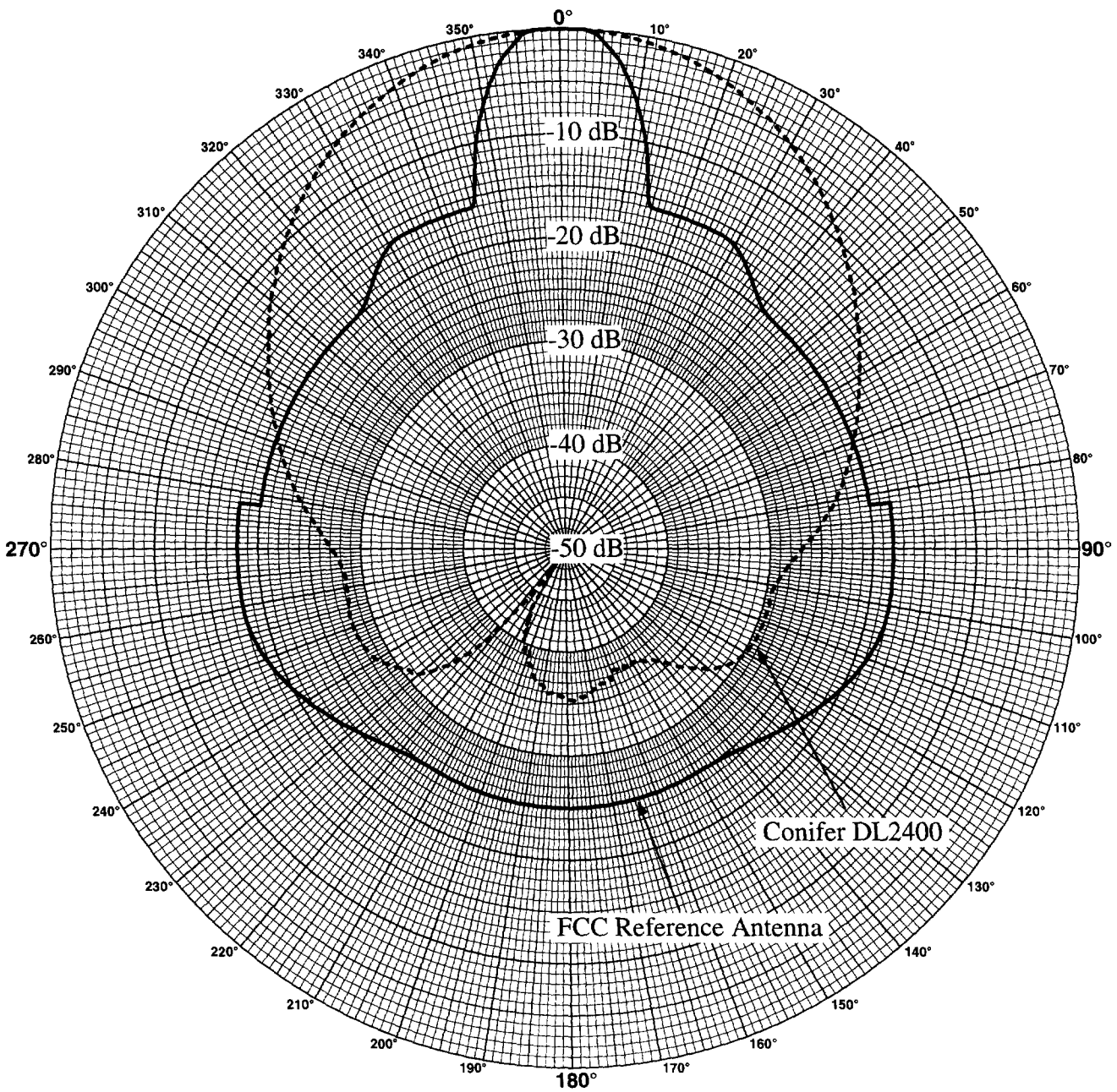


Distance D = 1,521 ft for brute force overload interference
= 2.82 mi for adjacent-channel interference

Area A = 0.037 sq. mi for brute force overload interference
= 3.57 sq. mi for adjacent-channel interference

Catholic Television Network

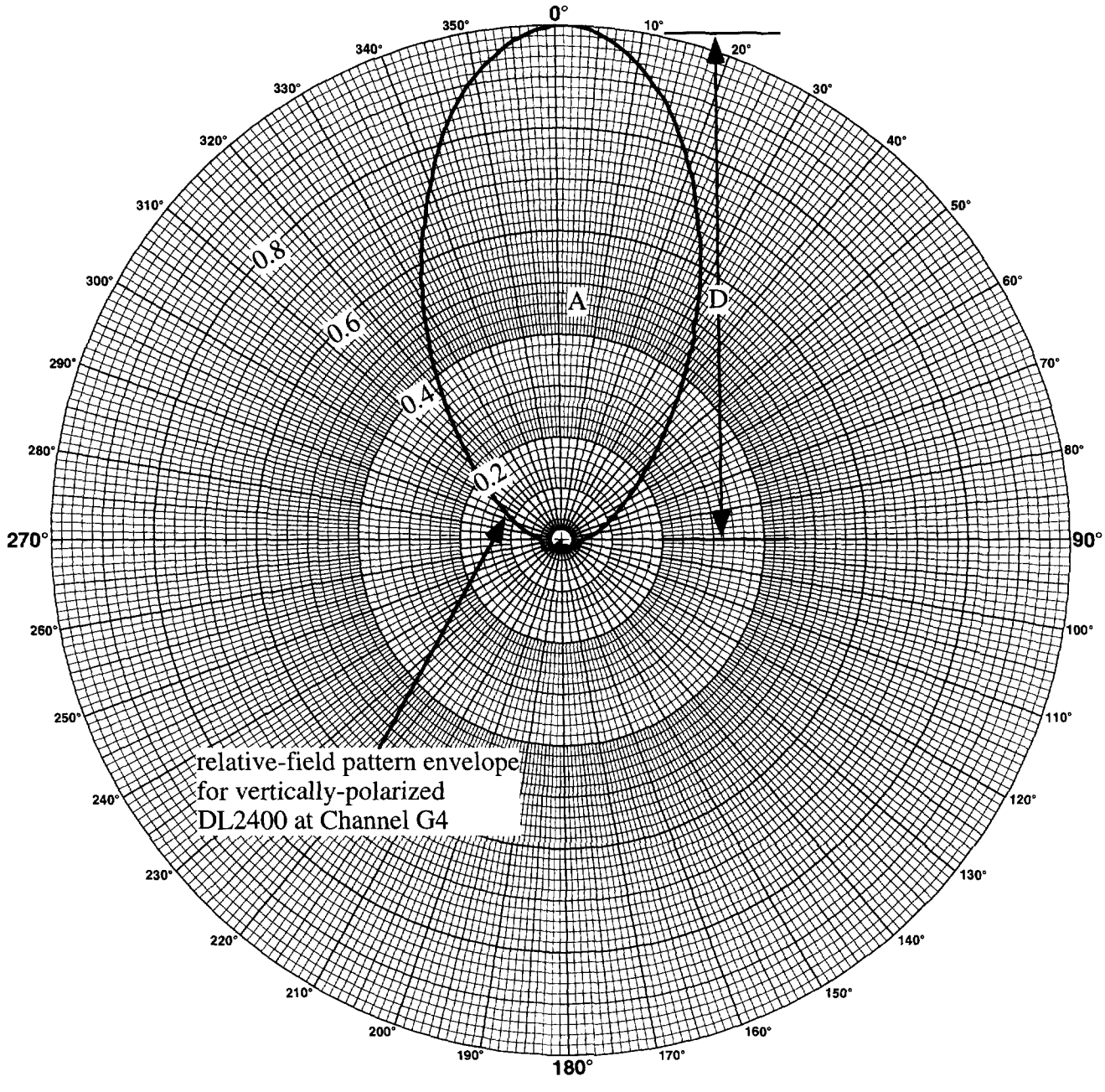
Radiation Pattern Envelope for Conifer Vertically-Polarized DL2400 Antenna at ITFS Channel G4 Compared to FCC Reference Antenna



RPE based on manufacturer's data

Catholic Television Network

Area Footprints for Brute Force Overload and Adjacent-Channel Interference Based on a Response Station EIRP of 46 dBm (40 w)



Distance D = 1,521 ft for brute force overload interference
= 2.82 mi for adjacent-channel interference

Area A = 0.035 sq. mi for brute force overload interference
= 3.39 sq. mi for adjacent-channel interference